

Fig. 1

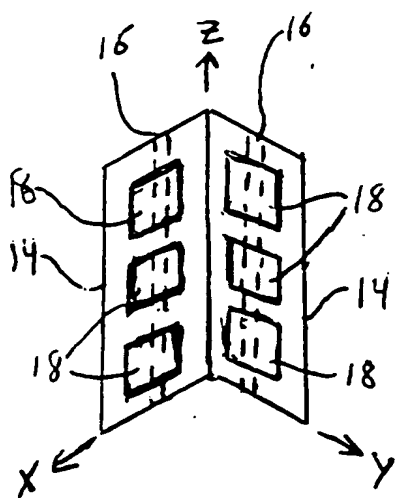


Fig. 2

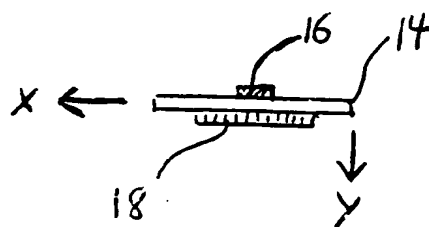


Fig. 3

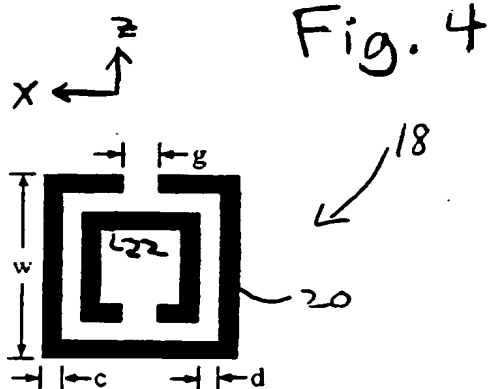


Fig. 4

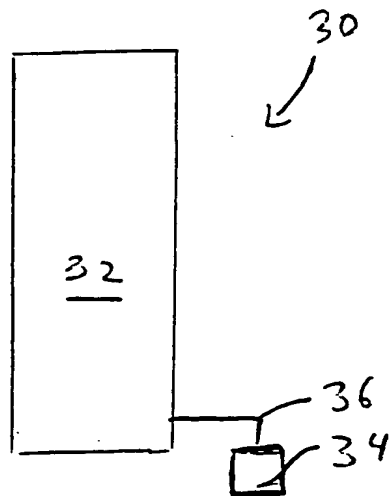


Fig. 5

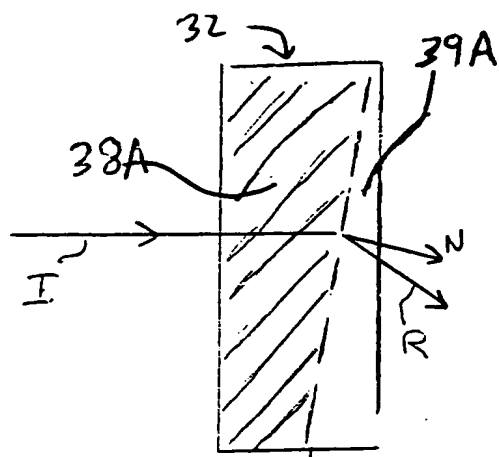


Fig. 5A

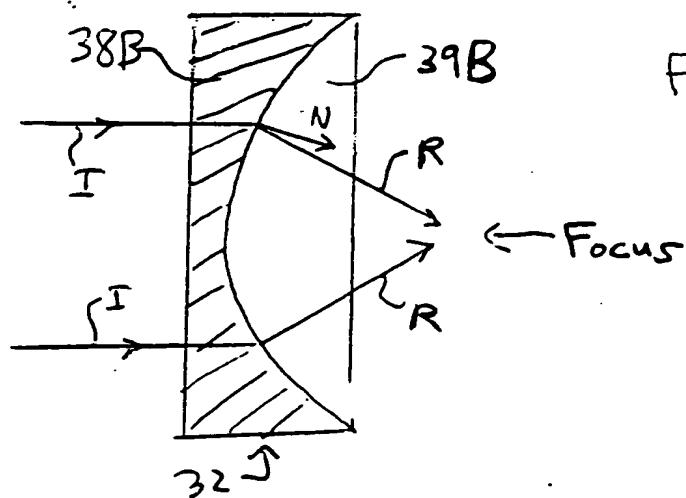


Fig. 5B

Fig. 6

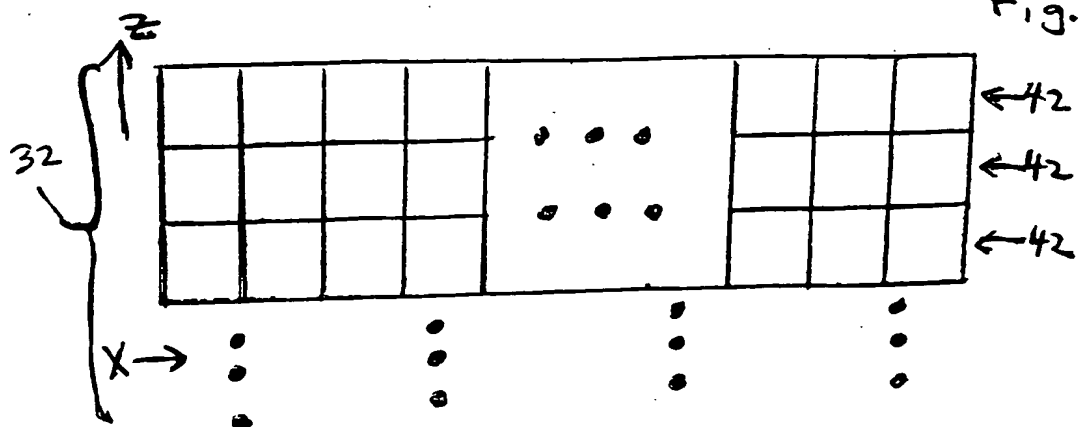
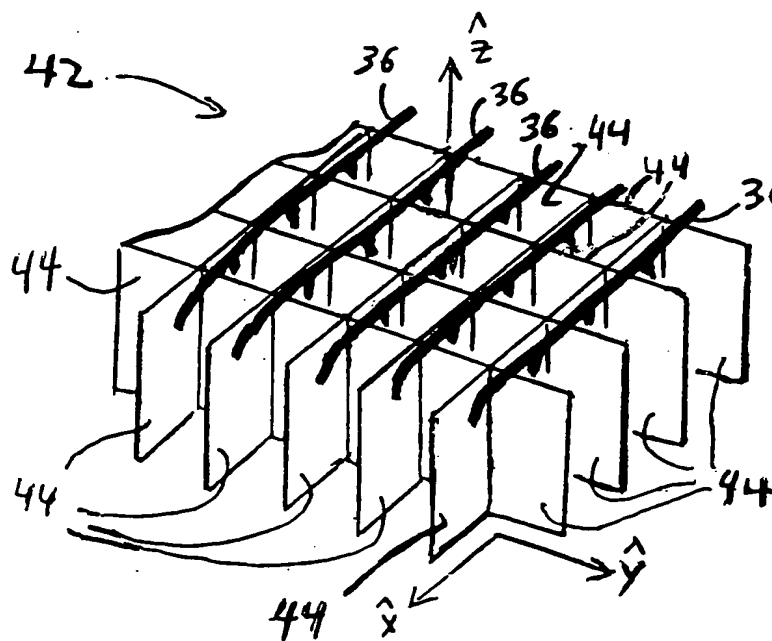
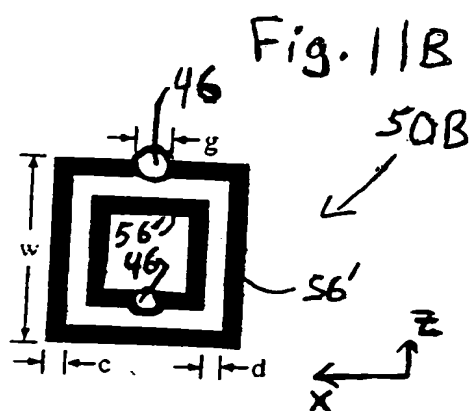
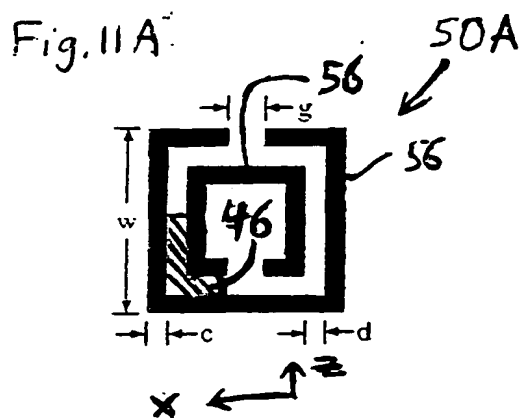
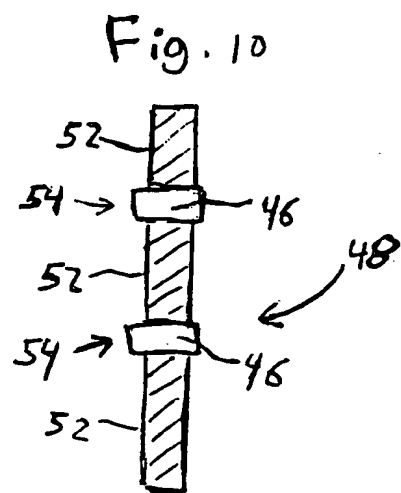
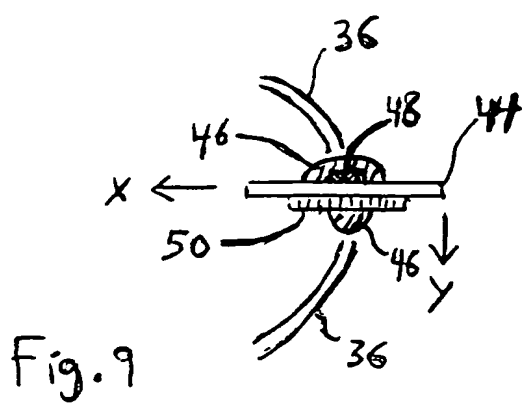
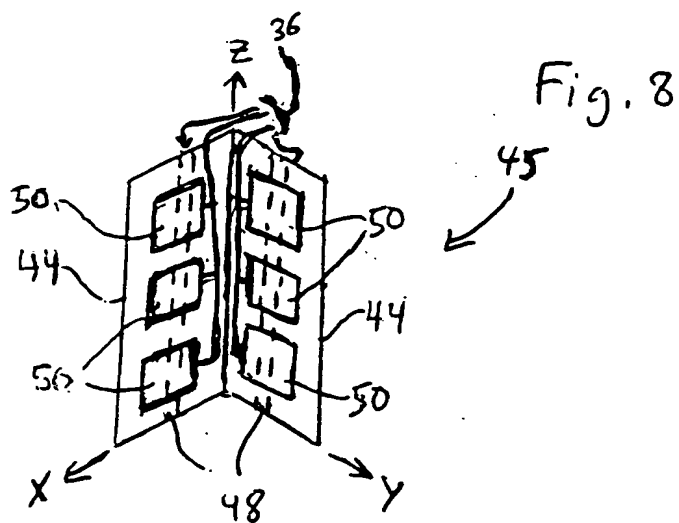


Fig. 7





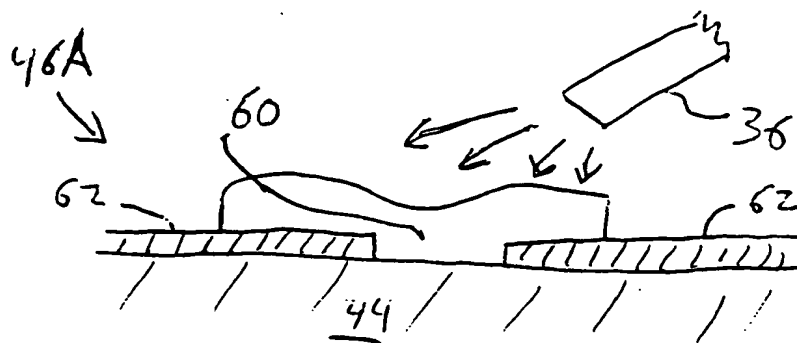


Fig. 12A

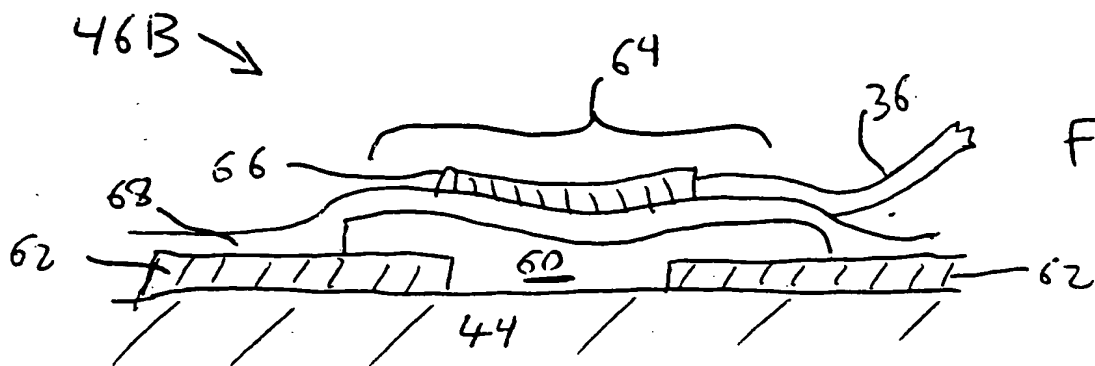


Fig. 12B

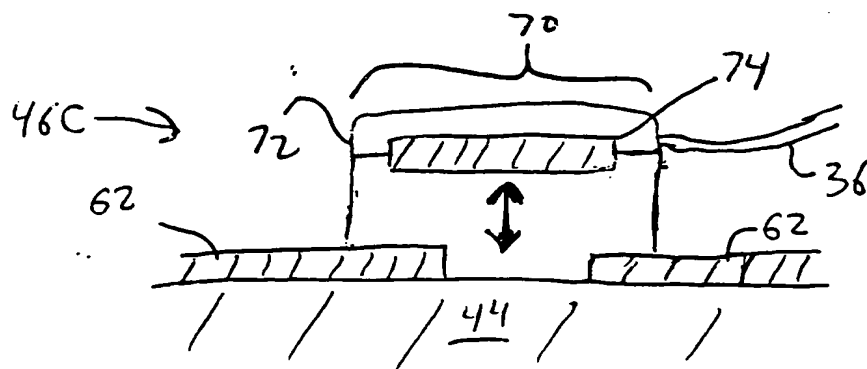
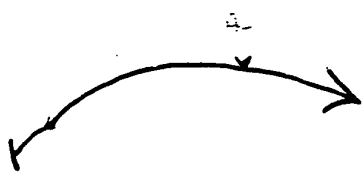
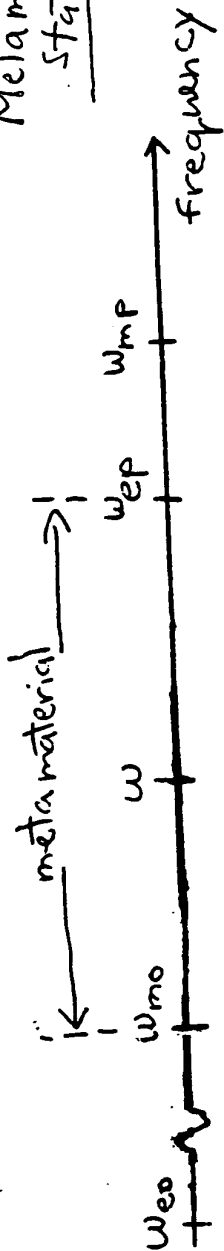


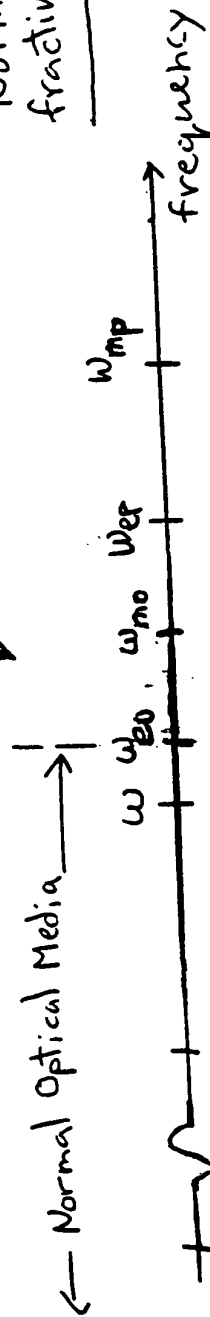
Fig. 12C

Fig. 13

Metamaterial state



Normal Re-fractive State



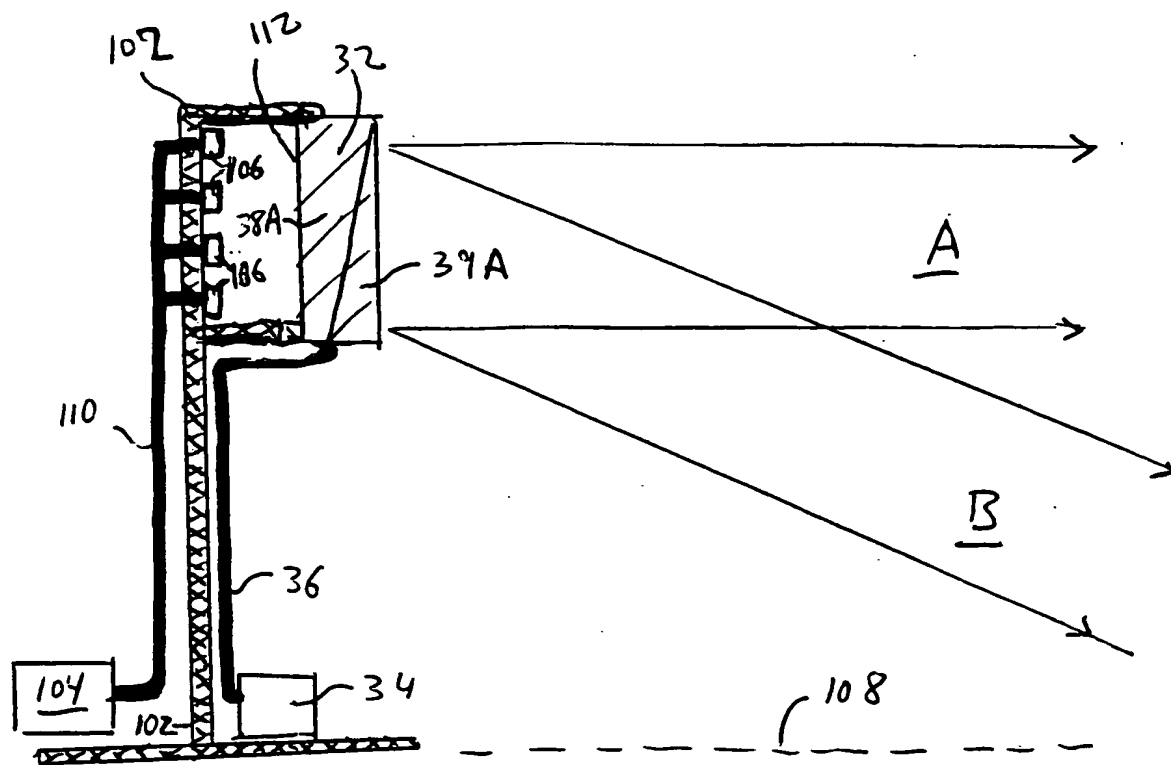


Fig. 14

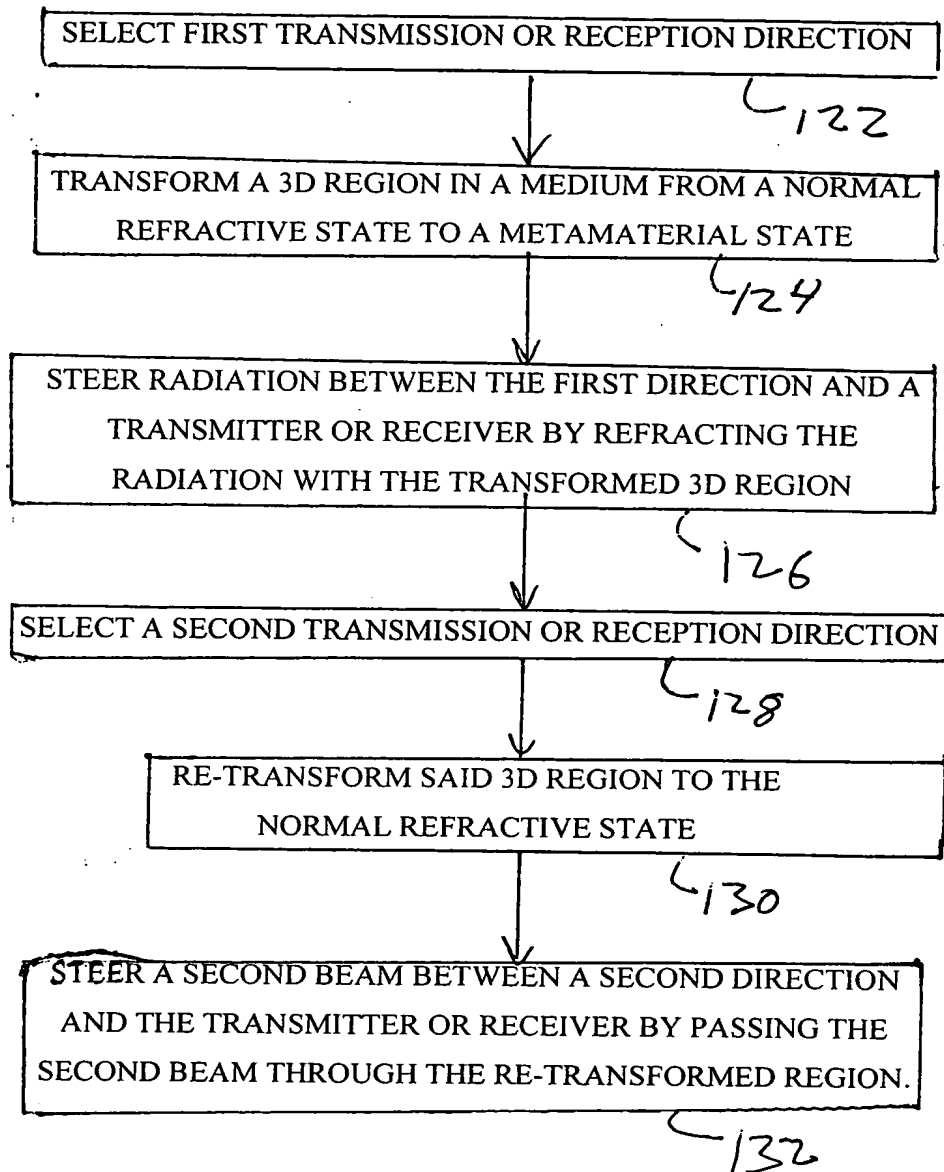


FIGURE 15